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LOGANEnergy Delivers CHP Fuel Cell Project To CA Customer

(Roswell, GA) **LOGANEnergy Corporation** announces the completion and start-up of a 600kWe fuel cell project that it developed for A Partners LLC, a Fresno, CA real estate company. The fuel cell power block, sited next to the company's 12-story Guaranty Building in midtown Fresno, harnesses three PC25C power plants manufactured by UTC Power, South Windsor, CT.

Ron Allison, owner and developer of the Guaranty Building, decided to incorporate fuel cells into the renovation after reading about the success of the Department of Defense (DoD) Fuel Cell Demonstration Program of the mid 1990's. This program is managed by the U.S. Army Corps of Engineers' Construction Engineering Research Laboratory (CERL).

"After digesting the literature about their program, we felt that fuel cells would be good for our tenants and good for the visibility of our project because they are reliable, clean and efficient, and they put a green signature on our business operations. We selected LOGANEnergy to develop this project because of their experience and reputation within the fuel cell industry."

Allison's 600kWe installation provides base load service to the building but also emergency power to support both facility and tenant critical electric loads. The system design incorporates a Multi Unit Load Sharing electronics package and a static switch that permits the seamless transfer of fuel cell power to critical circuits following a grid event. This means that the priority electric requirements for the tenant's server and communication systems, and for the facility's security system and elevator motors will continue to operate without interruption.

Additionally, the fuel cells provide 2.7 MMBtu/h of clean and efficient thermal energy to the building's HVAC loads. To capture this benefit, the project selected a 120-ton Nishiyodo Adsorption Chiller to cool the first three floors of the building. During cooling months, the chiller draws 1.35 MMBtu/h waste heat at 250 degrees F. from the fuel cells' high-grade heat exchangers to generate 85 tons of equivalent cooling. The same thermal loop doubles as the heat source for all of the facility's domestic hot water. During the heating months, the fuel cells' low-grade heat exchangers provide 1.35 MMBtu/h waste heat at 140 degrees F. to supplement the output of heat pumps located throughout the building.

LOGANEnergy President, Sam Logan, noted, "The A Partners fuel cell project is very important for California and the nation. It's a window on a sustainable energy future

employing transitional technology that delivers many of those benefits today, clean power and low emissions plus energy efficiency that challenges the notion of foreign dependencies. Our team views this installation as a prototype for hundreds of similar applications across California and the US, and we hope fuel cell manufacturers are getting more products ready for market.”

LOGANEnergy Corporation is a private Fuel Cell Energy Services company that specializes in planning, developing, and installing fuel cell projects. Over the past decade LOGAN’s team has acquired technical skills and expertise in the design, installation and operation of over 40 commercial and small-scale fuel cell projects representing more than 7 megawatts of capacity. These services have been provided to the Department of Defense, fuel cell manufacturers, utilities, and other commercial customers. The company currently manages PAFC and PEM fuel cell projects at 21 locations in 12 states, and has agreements to install important new projects in the future.